

# Àric Cattan

## List of Publications by Year in descending order

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1163117

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docs citations

14  
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371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward an Electroactive Polymer-Based Soft Microgripper. IEEE Access, 2021, 9, 32188-32195.	4.2	6
2	Modeling and Experimental Analysis of the Mass Loading Effect on Micro-Ionic Polymer Actuators Using Step Response Identification. Journal of Microelectromechanical Systems, 2021, 30, 243-252.	2.5	1
3	Very large amplitude vibrations of flexible structures: Experimental identification and validation of a quadratic drag damping model. Journal of Fluids and Structures, 2020, 97, 103056.	3.4	18
4	Demonstrating Full Integration Process for Electroactive Polymer Microtransducers to Realize Soft Microchips. , 2020, , .		4
5	PEDOT:PSS-based micromuscles and microsensors fully integrated in flexible chips. Smart Materials and Structures, 2020, 29, 09LT01.	3.5	4
6	Poly(3,4-ethylenedioxythiophene):Poly(styrene sulfonate)/Polyethylene Oxide Electrodes with Improved Electrical and Electrochemical Properties for Soft Microactuators and Microsensors. Advanced Electronic Materials, 2019, 5, 1800948.	5.1	39
7	Ultrathin electrochemically driven conducting polymer actuators: fabrication and electrochemomechanical characterization. Electrochimica Acta, 2018, 265, 670-680.	5.2	23
8	Nonlinear dynamic modeling of ultrathin conducting polymer actuators including inertial effects. Smart Materials and Structures, 2018, 27, 115032.	3.5	10
9	Linear finite-difference bond graph model of an ionic polymer actuator. Smart Materials and Structures, 2017, 26, 095055.	3.5	6
10	Synergetic PEDOT degradation during a reactive ion etching process. Sensors and Actuators B: Chemical, 2016, 229, 635-645.	7.8	8
11	Top-down Approach for the Direct Synthesis, Patterning, and Operation of Artificial Micromuscles on Flexible Substrates. ACS Applied Materials & Interfaces, 2016, 8, 1559-1564.	8.0	41
12	Demonstrating kHz Frequency Actuation for Conducting Polymer Microactuators. Advanced Functional Materials, 2014, 24, 4851-4859.	14.9	96
13	Conducting interpenetrating polymer network sized to fabricate microactuators. Applied Physics Letters, 2011, 98, .	3.3	60
14	Dry Etching Process on a Conducting Interpenetrating Polymer Network Actuator for a Flapping Fly Micro Robot. , 2011, , .		10